

6420



OIEP

RAW SEQUENCE LISTING  
 PATENT APPLICATION: US/10/056,407

DATE: 02/14/2002  
 TIME: 16:38:37

Input Set : A:\EP.txt  
 Output Set: N:\CRF3\02142002\J056407.raw

ENTERED

3 <110> APPLICANT: MEHENS, LYDIE  
 4 LUHRMANN, REINHARD GEORGE  
 5 UNION, ANN  
 6 RAYMACKERS, JOSEPH  
 8 <120> TITLE OF INVENTION: METHYLATED, SMD HOMOLOGOUS PEPTIDES, REACTIVE WITH THE  
 ANTIBODIES FROM  
 9 SERA OF LIVING BEINGS AFFECTED WITH SYSTEMIC LUPUS ERYTHEMATOSUS  
 11 <130> FILE REFERENCE: INNS:011--1  
 C--> 13 <140> CURRENT APPLICATION NUMBER: US/10/056,407  
 C--> 13 <141> CURRENT FILING DATE: 2002-01-24  
 13 <150> PRIOR APPLICATION NUMBER: US 09/297,981  
 14 <151> PRIOR FILING DATE: 1999-05-10  
 16 <160> NUMBER OF SEQ ID NOS: 30  
 18 <170> SOFTWARE: PatentIn version 3.1  
 20 <210> SEQ ID NO: 1  
 21 <211> LENGTH: 19  
 22 <212> TYPE: PRT  
 23 <213> ORGANISM: Artificial Sequence  
 25 <220> FEATURE:  
 26 <223> OTHER INFORMATION: Synthetic Peptide  
 28 <220> FEATURE:  
 29 <221> NAME/KEY: MISC\_FEATURE  
 30 <222> LOCATION: (2)..(18)  
 31 <223> OTHER INFORMATION: "Xaa" stands for mono- or dimethylated arginine  
 34 <400> SEQUENCE: 1  
 W- 36 Gly Xaa Gly Xaa Gly Xaa Gly Xaa Gly Xaa Gly Xaa Gly Xaa  
 W- 37 1 5 10 15  
 40 Gly Xaa Gly  
 44 <210> SEQ ID NO: 2  
 45 <211> LENGTH: 11  
 46 <212> TYPE: PRT  
 47 <213> ORGANISM: Artificial Sequence  
 49 <220> FEATURE:  
 50 <223> OTHER INFORMATION: Synthetic Peptide  
 52 <220> FEATURE:  
 53 <221> NAME/KEY: MISC\_FEATURE  
 54 <222> LOCATION: (2)..(10)  
 55 <223> OTHER INFORMATION: "Xaa" stands for mono- or dimethylated arginine  
 58 <400> SEQUENCE: 2  
 W- 60 Ala Xaa Gly Xaa Gly Xaa Gly Met Gly Xaa Gly  
 61 1 5 10  
 64 <210> SEQ ID NO: 3  
 65 <211> LENGTH: 17  
 66 <212> TYPE: PRT

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67 &lt;213&gt; ORGANISM: Artificial Sequence

69 &lt;220&gt; FEATURE:

70 &lt;223&gt; OTHER INFORMATION: Synthetic Peptide

72 &lt;220&gt; FEATURE:

73 &lt;221&gt; NAME/KEY: MISC\_FEATURE

74 &lt;222&gt; LOCATION: (7)..(15)

75 &lt;223&gt; OTHER INFORMATION: "Xaa" stands for mono- or dimethylated arginine

78 &lt;400&gt; SEQUENCE: 3

W--> 80 Lys Ala Gln Val Ala Ala Xaa Gly Xaa Gly Xaa Gly Met Gly Xaa Gly  
 81 1 5 10 15

84 Asn

88 &lt;210&gt; SEQ ID NO: 4

89 &lt;211&gt; LENGTH: 38

90 &lt;212&gt; TYPE: PRT

91 &lt;213&gt; ORGANISM: Artificial Sequence

93 &lt;220&gt; FEATURE:

94 &lt;223&gt; OTHER INFORMATION: Synthetic Peptide

96 &lt;220&gt; FEATURE:

97 &lt;221&gt; NAME/KEY: MISC\_FEATURE

98 &lt;222&gt; LOCATION: (17)..(33)

99 &lt;223&gt; OTHER INFORMATION: "Xaa" stands for mono- or dimethylated arginine

102 &lt;400&gt; SEQUENCE: 4

104 Asp Val Glu Pro Lys Val Lys Ser Lys Lys Arg Glu Ala Val Ala Gly  
 105 1 5 10 15

W--> 108 Xaa Gly Xaa Gly Xaa Gly Xaa Gly Xaa Gly Xaa Gly Xaa Gly Xaa Gly Xaa Gly  
 109 20 25 30

W--> 112 Xaa Gly Gly Pro Arg Arg  
 113 35

116 &lt;210&gt; SEQ ID NO: 5

117 &lt;211&gt; LENGTH: 16

118 &lt;212&gt; TYPE: PRT

119 &lt;213&gt; ORGANISM: Artificial Sequence

121 &lt;220&gt; FEATURE:

122 &lt;223&gt; OTHER INFORMATION: Synthetic Peptide

124 &lt;220&gt; FEATURE:

125 &lt;221&gt; NAME/KEY: MISC\_FEATURE

126 &lt;222&gt; LOCATION: (5)..(13)

127 &lt;223&gt; OTHER INFORMATION: "Xaa" stands for mono- or dimethylated arginine

130 &lt;400&gt; SEQUENCE: 5

W--> 132 Asp Asn His Gly Xaa Gly Xaa Gly Xaa Gly Xaa Gly Xaa Gly Gly Gly  
 133 1 5 10 15

136 &lt;210&gt; SEQ ID NO: 6

137 &lt;211&gt; LENGTH: 15

138 &lt;212&gt; TYPE: PRT

139 &lt;213&gt; ORGANISM: Artificial Sequence

141 &lt;220&gt; FEATURE:

142 &lt;223&gt; OTHER INFORMATION: Synthetic Peptide

144 &lt;220&gt; FEATURE:

145 &lt;221&gt; NAME/KEY: MISC\_FEATURE

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146 &lt;222&gt; LOCATION: (3)..(13)

147 &lt;223&gt; OTHER INFORMATION: "Xaa" stands for mono- or dimethylated arginine

150 &lt;400&gt; SEQUENCE: 6

W--&gt; 152 Gly Gly Xaa Gly Xaa Gly Gly Ser Gly Gly Xaa Gly Xaa Gly Gly

153 1 5 10 15

156 &lt;210&gt; SEQ ID NO: 7

157 &lt;211&gt; LENGTH: 12

158 &lt;212&gt; TYPE: PRT

159 &lt;213&gt; ORGANISM: Artificial Sequence

161 &lt;220&gt; FEATURE:

162 &lt;223&gt; OTHER INFORMATION: Synthetic Peptide

164 &lt;220&gt; FEATURE:

165 &lt;221&gt; NAME/KEY: MISC\_FEATURE

166 &lt;222&gt; LOCATION: (4)..(10)

167 &lt;223&gt; OTHER INFORMATION: "Xaa" stands for mono- or dimethylated arginine

170 &lt;400&gt; SEQUENCE: 7

W--&gt; 172 Glu Arg Ala Xaa Gly Xaa Gly Xaa Gly Xaa Gly Glu

173 1 5 10

176 &lt;210&gt; SEQ ID NO: 8

177 &lt;211&gt; LENGTH: 46

178 &lt;212&gt; TYPE: PRT

179 &lt;213&gt; ORGANISM: Artificial Sequence

181 &lt;220&gt; FEATURE:

182 &lt;223&gt; OTHER INFORMATION: Synthetic Peptide

184 &lt;220&gt; FEATURE:

185 &lt;221&gt; NAME/KEY: MISC\_FEATURE

186 &lt;222&gt; LOCATION: (6)..(44)

187 &lt;223&gt; OTHER INFORMATION: "Xaa" stands for mono- or dimethylated arginine

190 &lt;400&gt; SEQUENCE: 8

W--&gt; 192 Gly Gly Gln Gln Asp Xaa Gly Gly Xaa Gly Xaa Gly Gly Gly Gly

193 1 5 10 15

W--&gt; 196 Tyr Asn Xaa Ser Ser Gly Gly Tyr Glu Pro Xaa Gly Xaa Gly Gly Gly

197 20 25 30

W--&gt; 200 Xaa Gly Gly Xaa Gly Gly Met Gly Gly Ser Asp Xaa Gly Gly

201 35 40 45

204 &lt;210&gt; SEQ ID NO: 9

205 &lt;211&gt; LENGTH: 18

206 &lt;212&gt; TYPE: PRT

207 &lt;213&gt; ORGANISM: Artificial Sequence

209 &lt;220&gt; FEATURE:

210 &lt;223&gt; OTHER INFORMATION: Synthetic Peptide

212 &lt;220&gt; FEATURE:

213 &lt;221&gt; NAME/KEY: MISC\_FEATURE

214 &lt;222&gt; LOCATION: (6)..(11)

215 &lt;223&gt; OTHER INFORMATION: "Xaa" stands for mono- or dimethylated arginine

218 &lt;400&gt; SEQUENCE: 9

W--&gt; 220 Gly Gly Gln Gln Asp Xaa Gly Gly Xaa Gly Xaa Gly Gly Gly Gly

221 1 5 10 15

224 Tyr Asn

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Input Set : A:\EP.txt

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228 <210> SEQ ID NO: 10  
 229 <211> LENGTH: 26  
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 231 <213> ORGANISM: Artificial Sequence  
 233 <220> FEATURE:  
 234 <223> OTHER INFORMATION: Synthetic Peptide  
 236 <220> FEATURE:  
 237 <221> NAME/KEY: MISC\_FEATURE  
 238 <222> LOCATION: (7)..(24)  
 239 <223> OTHER INFORMATION: "Xaa" stands for mono- or dimethylated arginine  
 242 <400> SEQUENCE: 10

W--> 244 Ser Gly Gly Tyr Glu Pro Xaa Gly Xaa Gly Gly Gly Xaa Gly Gly Xaa  
 245 1 5 10 15  
 W--> 248 Gly Gly Met Gly Gly Ser Asp Xaa Gly Gly  
 249 20 25

252 <210> SEQ ID NO: 11  
 253 <211> LENGTH: 17  
 254 <212> TYPE: PRT  
 255 <213> ORGANISM: Artificial Sequence  
 257 <220> FEATURE:  
 258 <223> OTHER INFORMATION: Synthetic Peptide  
 260 <220> FEATURE:  
 261 <221> NAME/KEY: MISC\_FEATURE  
 262 <222> LOCATION: (4)..(15)  
 263 <223> OTHER INFORMATION: "Xaa" stands for mono- or dimethylated arginine  
 266 <400> SEQUENCE: 11

W--> 268 Asp Phe Asn Xaa Gly Gly Gly Asn Gly Xaa Gly Gly Xaa Gly Xaa Gly  
 269 1 5 10 15  
 272 Gly

276 <210> SEQ ID NO: 12  
 277 <211> LENGTH: 29  
 278 <212> TYPE: PRT  
 279 <213> ORGANISM: Artificial Sequence  
 281 <220> FEATURE:  
 282 <223> OTHER INFORMATION: Synthetic Peptide  
 284 <220> FEATURE:  
 285 <221> NAME/KEY: MISC\_FEATURE  
 286 <222> LOCATION: (4)..(21)  
 287 <223> OTHER INFORMATION: "Xaa" stands for mono- or dimethylated arginine  
 290 <400> SEQUENCE: 12

W--> 292 Asp Phe Asn Xaa Gly Gly Gly Asn Gly Xaa Gly Gly Xaa Gly Xaa Gly  
 293 1 5 10 15  
 W--> 296 Gly Pro Met Gly Xaa Gly Gly Tyr Gly Gly Gly Gly Ser  
 297 20 25

300 <210> SEQ ID NO: 13  
 301 <211> LENGTH: 38  
 302 <212> TYPE: PRT  
 303 <213> ORGANISM: Artificial Sequence  
 305 <220> FEATURE:

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306 &lt;223&gt; OTHER INFORMATION: Synthetic Peptide

308 &lt;220&gt; FEATURE:

309 &lt;221&gt; NAME/KEY: MISC\_FEATURE

310 &lt;222&gt; LOCATION: (4)..(34)

311 &lt;223&gt; OTHER INFORMATION: "Xaa" stands for mono- or dimethylated arginine

314 &lt;400&gt; SEQUENCE: 13

W--&gt; 316 Gly Asp Asp Xaa Xaa Gly Xaa Gly Gly Tyr Asp Xaa Gly Gly Tyr Xaa

317 1 5 10 15

W--&gt; 320 Gly Xaa Gly Gly Asp Xaa Gly Gly Phe Xaa Gly Gly Xaa Gly Gly Gly

321 20 25 30

W--&gt; 324 Asp Xaa Gly Gly Phe Gly

325 35

328 &lt;210&gt; SEQ ID NO: 14

329 &lt;211&gt; LENGTH: 14

330 &lt;212&gt; TYPE: PRT

331 &lt;213&gt; ORGANISM: Artificial Sequence

333 &lt;220&gt; FEATURE:

334 &lt;223&gt; OTHER INFORMATION: Synthetic Peptide

336 &lt;220&gt; FEATURE:

337 &lt;221&gt; NAME/KEY: MISC\_FEATURE

338 &lt;222&gt; LOCATION: (4)..(12)

339 &lt;223&gt; OTHER INFORMATION: "Xaa" stands for mono- or dimethylated arginine

342 &lt;400&gt; SEQUENCE: 14

W--&gt; 344 Gly Asp Asp Xaa Xaa Gly Xaa Gly Gly Tyr Asp Xaa Gly Gly

345 1 5 10

348 &lt;210&gt; SEQ ID NO: 15

349 &lt;211&gt; LENGTH: 26

350 &lt;212&gt; TYPE: PRT

351 &lt;213&gt; ORGANISM: Artificial Sequence

353 &lt;220&gt; FEATURE:

354 &lt;223&gt; OTHER INFORMATION: Synthetic Peptide

356 &lt;220&gt; FEATURE:

357 &lt;221&gt; NAME/KEY: MISC\_FEATURE

358 &lt;222&gt; LOCATION: (4)..(22)

359 &lt;223&gt; OTHER INFORMATION: "Xaa" stands for mono- or dimethylated arginine

362 &lt;400&gt; SEQUENCE: 15

W--&gt; 364 Gly Gly Tyr Xaa Gly Xaa Gly Gly Asp Xaa Gly Gly Phe Xaa Gly Gly

365 1 5 10 15

W--&gt; 368 Xaa Gly Gly Gly Asp Xaa Gly Gly Phe Gly

369 20 25

372 &lt;210&gt; SEQ ID NO: 16

373 &lt;211&gt; LENGTH: 19

374 &lt;212&gt; TYPE: PRT

375 &lt;213&gt; ORGANISM: Artificial Sequence

377 &lt;220&gt; FEATURE:

378 &lt;223&gt; OTHER INFORMATION: Synthetic Peptide

380 &lt;400&gt; SEQUENCE: 16

382 Gly Arg Gly Arg Gly Arg Gly Arg Gly Arg Gly Arg Gly Arg

383 1 5 10 15

## VERIFICATION SUMMARY

PATENT APPLICATION: US/10/056,407

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Input Set : A:\EP.txt

Output Set: N:\CRF3\02142002\J056407.raw

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L:13 M:271 C: Current Filing Date differs, Replaced Current Filing Date  
L:36 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1  
L:40 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1  
L:60 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2  
L:80 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3  
L:108 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:4  
L:112 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:4  
L:132 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:5  
L:152 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:6  
L:172 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:7  
L:192 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:8  
L:196 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:8  
L:200 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:8  
L:220 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:9  
L:244 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:10  
L:248 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:10  
L:268 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:11  
L:292 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:12  
L:296 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:12  
L:316 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:13  
L:320 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:13  
L:324 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:13  
L:344 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:14  
L:364 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:15  
L:368 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:15